POWER ENGINEERING COMPETENCY FRAMEWORK								
SKILLS MAP - Senior Associate Engineer / Associate Engineer (Regulatory)								
Sector Track	Power Engineering in the Public Service Regulatory							
Occupation	Assistant Electrical Engineer							
Job Role	Senior Associate Engineer / Associate Engineer (Regulatory)							
Job Role Description	The Senior Associate Engineer / Associate Engineer (Regulatory) is responsible for communicating information on regulatory frameworks, policies and technical measures and processes for power systems. He/She tracks legislations, codes of practice and performance standards for power systems and emerging technologies. He investigates power failure and low voltage electrical incidents and reports regulatory breaches.							
	He supports applicant assessment for Electrician's Licence and licensing of electrical installations, and coordinates inspections on electricity and supply installations. He monitors electricity system operations to ensure safety, security and reliability, and prepares audit and system review reports. He coordinates reviews of power systems with licensees to identify vulnerabilities and mitigating measures to enhance reliability. Additionally, he keeps abreast of latest technology trends and green initiatives, and records data for operational analytics							
	He is detail-oriented and meticulous in tracking, monitoring and reporting compliance related issues. In addition, he is systematic and process-oriented.							
	Critical Work Functions	Key	Tasks	Performance Expectations (For legislated / regulated occupations)*				
	Establish regulatory framework for power industry	Communicate information on regulator measures/processes for power system	y frameworks, policies and technical s	In accordance with: - Electricity Act including subsidiary legislations - Energy Market Authority of Singapore Act - International Electrotechnical Commission (IEC) Standards - International Organization for				
Critical Work Functions and Key Tasks / Performance Expectations		Maintain and track legislation, codes o	f practice and performance standards					
		Maintain updates to technical regulatio emerging technologies	ns and requirements for new and					
		Participate in industry and inter-agency technology discussions and policy dec	y committees for technical matters, isions	- Singapore Standards for Electrical and Power sector				
		Monitor licensees carrying out electrica competency criteria	al works to ensure compliance with	- Workplace Safety and Health (WSH) Act				
		Conduct applicant assessment and cho licensing of electrical installations	ecks for Electrician's Licence and	exhaustive and subject to prevailing regulations and industry standards				
	Manage licensing and compliance operations	Implement technical training and devel	opment plans for licensees	25				
		Coordinate inspections on electricity and	nd supply installations					
		Investigate power failure and electrical consumer electricity or installations	Incidents involving low voltage					
		Report non-compliance or breaches of of practice and performance standards	Flegislation, licence conditions, codes					
		Implement regulatory action against pa requirements	arties who breach regulatory					
	Ensure power system safety, security and reliability	security and reliability	electricity system to ensure safety,					
		Prepare reports for audits and system reviews of licensees' operations						
		Coordinate reviews of power systems with licensees to identify vulnerabilities and mitigating measures to enhance reliability						
		Participate in awareness and education the industry and the public	n initiatives for safe electricity use for	-				
	Oversee electricity network projects	Review electricity transmission and dis plans to meet electricity demand	tribution network development/renewal					
		Assess project feasibility based on evaluation of site suitability						
		Track implementation of approved elect network projects	ctricity transmission and distribution	-				
		Assist in Concept and Master Plan Rev to the electricity system including powe	view for land related matters pertaining er stations and substations					
	Contribute to decarbonisation, decentralisation and digitalisation initiatives	Keep abreast of national energy and p frameworks	ep abreast of national energy and power policies, strategies and meworks					
		Gather data on latest trends in electrical and power technologies						
		Gather data for green initiatives using clean and renewable energy						
		Record data for operational analytics						
Skills & Competencies	Technical Skills and Co	ompetencies	Critical Core Skills					
	Business Intelligence and Data Analytics	Level 2	Problem Solving	Basic				
	Continuous Improvement Management	Level 3	Collaboration	Basic				
	Cyber Incident Management	Level 3	Sense-Making	Basic				

	Cyber Risk Detection and Monitoring	Level 2	Customer Orientation	Basic	
	Cybersecurity Framework Application	Level 2	Communication	Basic	
	Electricity Network Incident Management	Level 2	Digital Fluency	Basic	
	Electricity Network Performance Monitoring	Level 2	Adaptability	Basic	
	Electricity Network Planning	Level 2	Influence	Basic	
	Emergency Response and Crisis Management	Level 3	Self Management	Basic	
	Engineering Asset Management	Level 2			
	Engineering Problem Solving	Level 3			
	Engineering Safety Standards Interpretation	Level 3			
	Environmental Sustainability Management	Level 3			
	Equipment and Systems Installation and Commissioning	Level 2			
	Inter-agency Collaboration	Level 3			
	Policy and Regulations Framework Development for Technology Advancement	Level 4			
	Policy Development	Level 3			
	Policy Implementation and Revision	Level 3			
	Power Engineering Management	Level 3			
	Power Plant Incident Investigation	Level 2			
	Power Quality Management	Level 3			
	Power Strategy Planning and Governance	Level 3			
	Regulatory Advisory	Level 3			
	Regulatory Compliance and Risk Management	Level 3			
	Stakeholder Management	Level 3			
Programme Listing	For a list of training programmes available for the Power Engineers in the Public Service, please refer to separate document on training courses.				

The information contained in this document serves as a guide.